



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/US99/11977 <b>(22) International Filing Date:</b> 28 May 1999 (28.05.99)  <b>(30) Priority Data:</b> 60/087,351           29 May 1998 (29.05.98)       US 60/106,446        30 October 1998 (30.10.98)   US  <b>(71) Applicant (for all designated States except US):</b> CHIRON CORPORATION [US/US]; 4560 Horton Street, Emeryville, CA 94608 (US).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> GRANOFF, Dan, M. [US/US]; 10 Creston Road, Berkeley, CA 94708 (US). AABERGE, Ingeborg, S. [NO/NO]; Statens Institutt for Folkehelse, P.O. Box 4404, N-0403 Oslo (NO). HANEBERG, Bjorn [NO/NO]; Statens Institutt for Folkehelse, P.O. Box 4404, N-0403 Oslo (NO). HOLST, Johan [NO/NO]; Statens Institutt for Folkehelse, P.O. Box 4404, N-0403 Oslo (NO). RAFF, Howard [US/US]; 296 Greene Street, Mill Valley, CA 94941 (US).  <b>(74) Agent:</b> HARBIN, Alisa, A.; Chiron Corporation, Intellectual Property - R440, P.O. Box 8097, Emeryville, CA 94662-8097 (US).		<b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i>

**(54) Title:** COMBINATION MENINGITIDIS B/C VACCINES**(57) Abstract**

The present invention is directed to a combination vaccine for *Neisseria meningitidis* comprising outer membrane proteins from serogroup B and oligosaccharides from serogroup C, and its use for the prevention or treatment of disease.